Data from the Commercial Fishery for Arctic Charr, *Salvelinus alpinus* (L.), in the Northwest Territories, 1985-86

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by

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ABSTRACT

Carder, G.W. 1988. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (L.), in the Northwest Territories, 1985-86. Can. Data Rep. Fish. Aquat. Sci. 681: v + 35 p.

Biological samples from commercially caught anadromous Arctic charr were collected during 1985 and 1986 from Arrowsmith River, Baker Foreland, Becher River, Coppermine River, Corbett Inlet, Ekalluk River, Ellice River, Hall Lake, Jayco River, Keith Bay, Kellett River, Lauchlan River, Maguse River, Paliryuak River, Pistol Bay, Rankin Inlet and Wilson Bay. Production figures, age, length and weight data from these and other fisheries are presented.

Key words: catch composition; catch statistics; commercial fishing; exploitation; fishery management; monitoring.

RÉSUMÉ

Carder, G.W. 1988. Data from the commercial fishery for Arctic charr, Salvelinus alpinus (L.), in the Northwest Territories, 1985-86. Can. Data Rep. Fish. Aquat. Sci. 681: v + 35 p.

Des échantillons ont été prélevés sur les prises commerciales d'ombles chevaliers anadromes faites au cours des années 1985 et 1986 dans la rivière Arrowsmith, dans les environs du promontoire Baker, dans la rivière Becher, la rivière Coppermine, le bras Corbett, la rivière Ekalluk, la rivière Ellice, le lac Hall, la rivière Jayco, la baie Keith, la rivière Kellett, la rivière Lauchlan, la rivière Maguse, la rivière Paliryuak, la baie Pistol, le bras Rankin et la baie Wilson. Sont également présentés des chiffres sur le nombre et sur l'âge, la longueur et le poids des sujets capturés dans ces pêches et dans d'autres des Territoires du Nord-Ouest.

Mots-clés: composition des prises; statistiques sur la prise; pêche commerciale; exploitation; gestion de pêcherie; contrôle.

INTRODUCTION

The Department of Fisheries and Oceans (DFO) has monitored the commercial fishery at Cambridge Bay, Northwest Territories (NWT) since 1971 (Kristofferson and Carder 1980; Carder 1981, 1983; Carder and Low 1985) and Rankin Inlet, Northwest Territories since 1972 (Carder 1983; Carder and Peet 1983; Carder and Low 1985). Information collected from biological samples taken has been used to assess the status of the catchable portion of anadromous Arctic charr stocks. Data obtained from these above areas and the Coppermine, Pelly Bay and Hall Beach fisheries during 1985 and 1986 are presented in this report. Quotas and production figures from other commercial Arctic charr fisheries in the Northwest Territories are shown as well.

MATERIALS AND METHODS

THE FISHERIES

The early history of the Cambridge Bay commercial fishery is described by Barlishen and Webber (1973) and the Rankin Inlet commercial fishery by Carder and Peet (1983). Recent data and a description of the Cambridge Bay area can be found in Kristofferson and Carder (1980), Carder (1981) Carder (1983), Carder and Low (1985) and the Rankin Inlet area in Carder (1983), Carder and Peet (1983), and Carder and Low (1985). Recent data from the Coppermine fishery can be found in Gillman and Kristofferson (1984) and from the Pelly Bay fishery in Kristofferson et al. (1982).

Arctic charr are caught primarily by gill nets with mesh sizes varying from 139 mm to 159 mm stretched measure. In 1986 during the upstream migration Jayco River was fished using an experimental fish weir (saputit) (Carder 1981; Kristofferson et al. 1986).

SAMPLING PROGRAM

Sampling methods are described in Kristofferson and Carder (1980) and Carder and Peet (1983). Details of sampling are shown in Table 1. Fishing locations are shown in Fig. 1, 2, 3 and 4.

Quotas and production figures are shown in Table 2. Biological data are presented in Tables 3-53. All tables of length data designate the lower boundary of the length interval (e.g. 450 indicates length interval 450-499 mm).

ACKNOWLEDGMENTS

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A.H. Kristofferson provided scientific advice and reviewed the final draft of this report. Drafting was done by graphic services. Word processing and typing services were done by B. Hyman and C. Catt.

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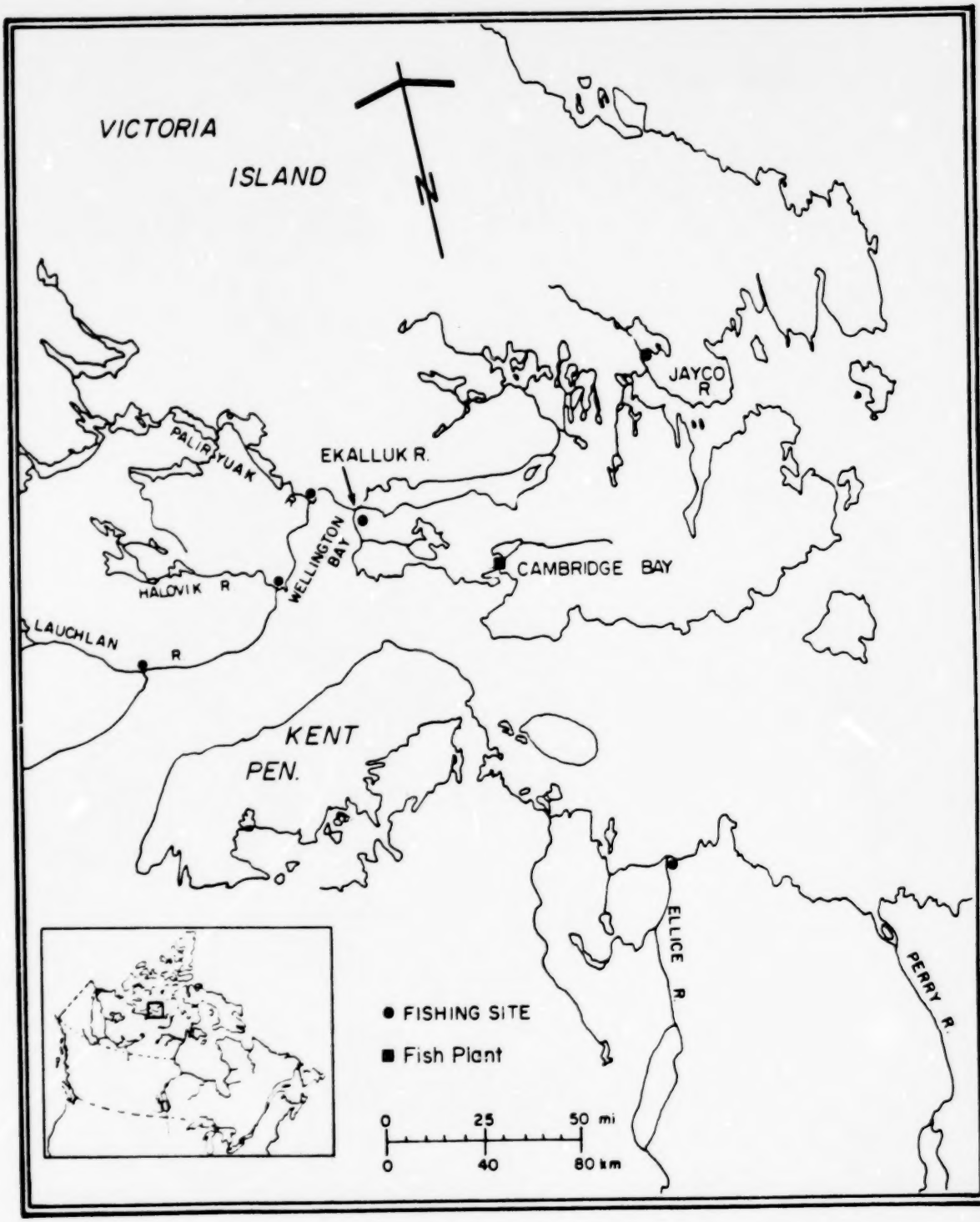

Fig. 1. Map of the Cambridge Bay area showing locations of commercial fishing sites.

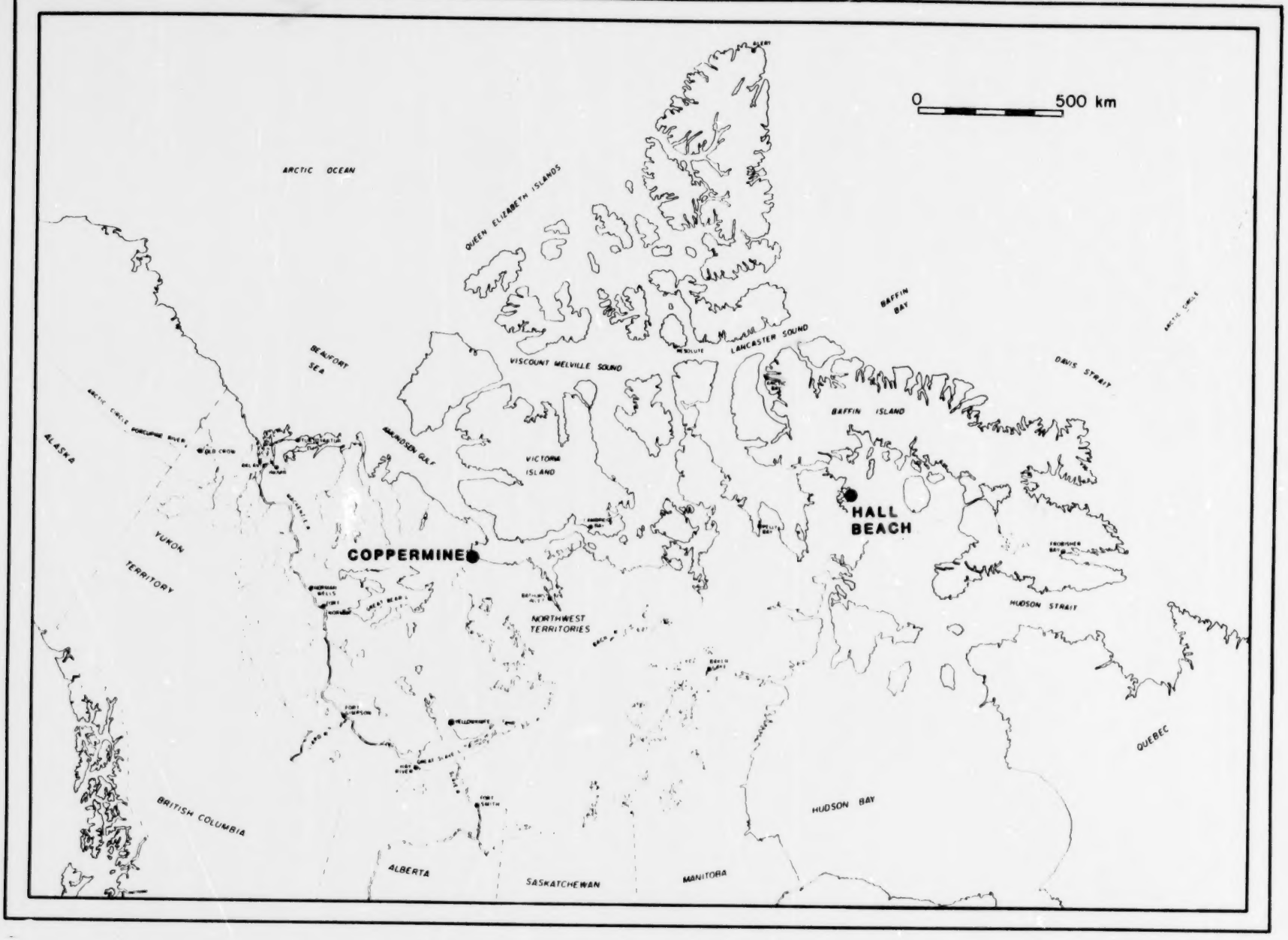

Fig. 2. Map of the Northwest Territories showing locations of commercial fishing sites at Coppermine and Hall Beach.

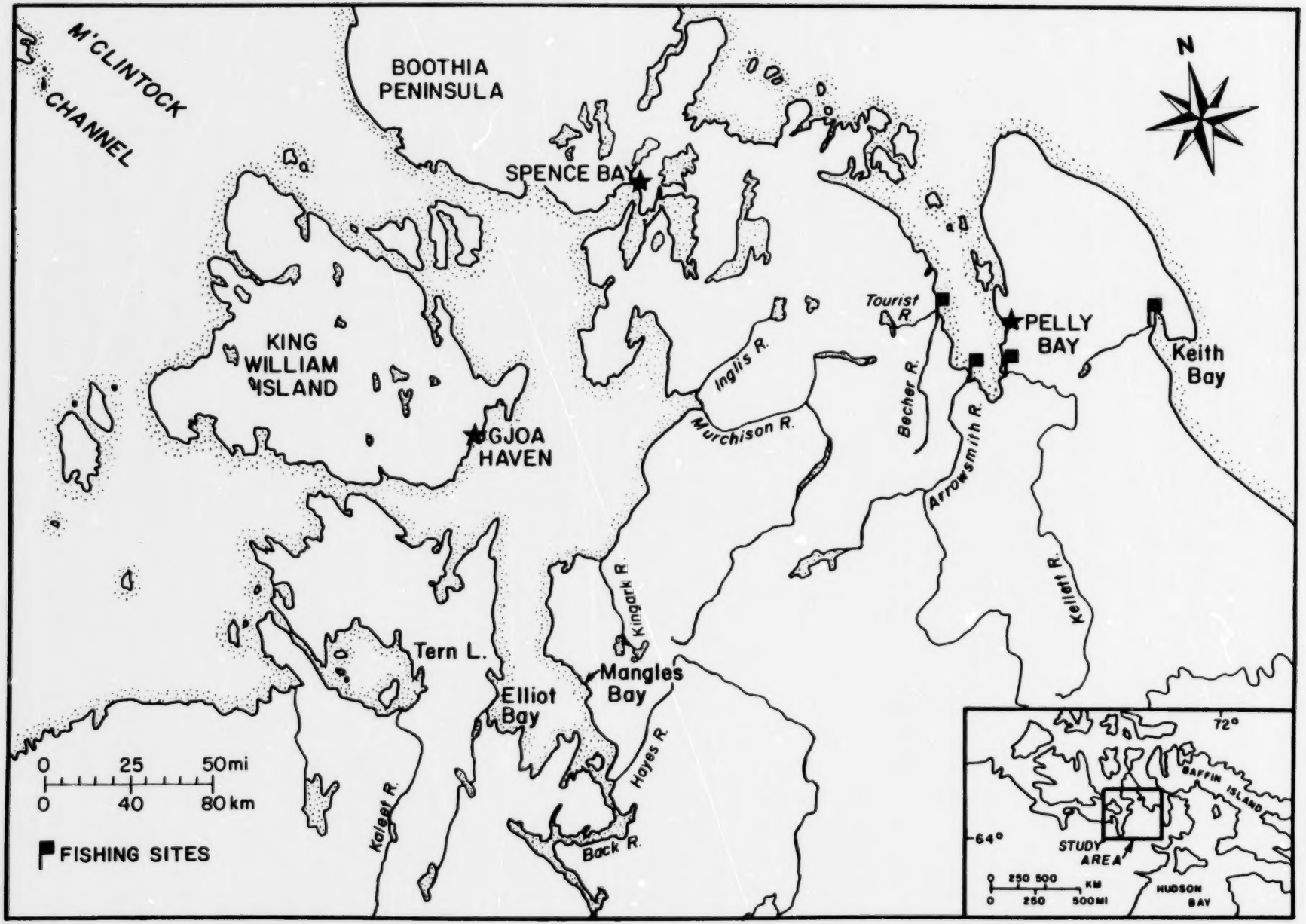

Fig. 3. Map of the Pelly Bay area showing locations of commercial fishing sites.

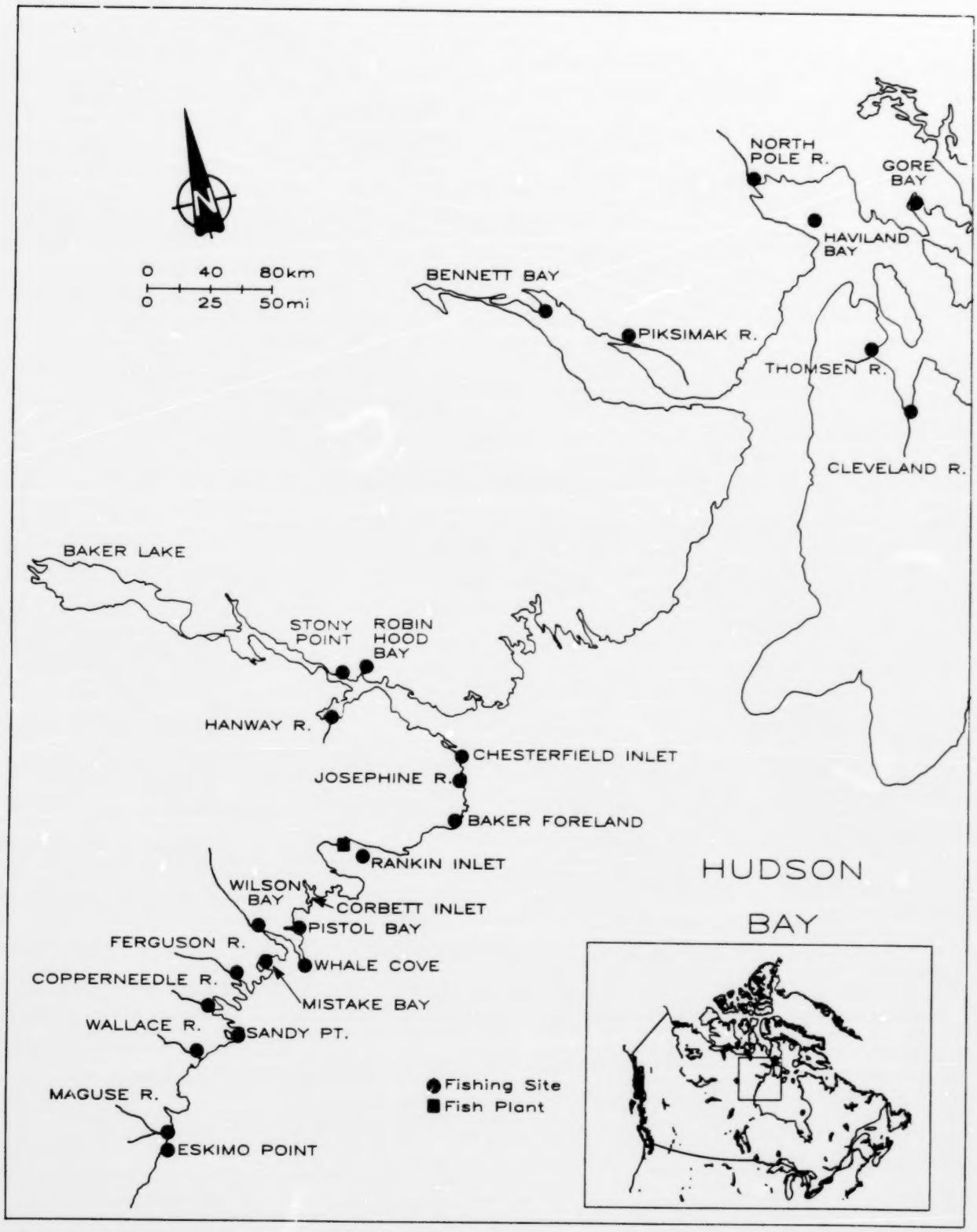

Fig. 4. Map of the Keewatin area showing locations of commercial fishing sites.

Table 1. Commercial water bodies sampled during 1985 and 1986.

Waterbody	1985 Samples	1986 Samples
Cambridge Bay Fishery		
Ekalluk R.	upstream only	upstream only
Halovik R.	downstream only	downstream only
Paliryuak R.	downstream and upstream	downstream only
Lauchlan R.	downstream only	downstream only
Ellice R.	upstream only	upstream only
Jayco R.	downstream only	upstream only
Coppermine Fishery		
Coppermine R.	no samples	upstream only
Hall Beach Fishery		
Hall Lake	no samples	upstream only
Pelly Bay Fishery		
Becher R.	after upstream migration (November)	no samples
Arrowsmith R.	no samples	upstream only
Kellett R.	after upstream migration (November)	no samples
Keith Bay	after upstream migration (November)	no samples
Rankin Inlet		
Baker Foreland	no samples	upstream only
Rankin Inlet	upstream only	upstream only
Corbett Inlet	no samples	upstream only
Pistol Bay	no samples	upstream only
Wilson Bay	no samples	upstream only
Maguse R.	no samples	upstream only

Table 2. Annual commercial quotas and production of anadromous Arctic charr by various fisheries in the Northwest Territories during 1985 and 1986.

	Quota (kg)	Production (kg)	
	1985 and 1986	1985	1986
Cambridge Bay area[1]			
Ekalluk River	14 500	14 524 (11 619 dr)[2]	14 349 (11 479 dr)
Halovik River (30 mile)	6 800	6 448 (5 158 dr)	6 830 (5 464 dr)
Paliryuak River (Surrey)	9 100	9 286 (7 429 dr)	9 123 (7 298 dr)
Lauchlan River (Byron Bay)	9 100	9 056 (7 245 dr)	8 243 (6 594 dr)
Ellice River	4 500	5 598 (4 478 dr)	4 180 (3 344 dr)
Jayco River	13 600	11 584 (9 267 dr)	12 076 (9 661 dr)
Coppermine Area[3]			
Coppermine River	600	600 (522 dr)	600 (522 dr)
Hall Beach Area[3]			
Hall Lake	3 600	3 359 (2 921 dr)	not available at time of pub.
Pelly Bay Area[3]			
Becher River	4 500 (1985) 2 000 (1986)	800 (696 dr)	227 (197 dr)
Arrowsmith River	1 000	-	160 (139 dr)
Kellett River	1 000	955 (830 dr)	1 000 (870 dr)
Keith Bay	4 500	573 (498 dr)	726 (631 dr)
Keewatin Area[3]			
North Pole River	2 300	-	-
Haviland Bay area	2 300	-	362 (315 dr)
Gore Bay area	3 600	436 (379 dr)	272 (237 dr)
Thomsen River area	2 300	-	453 (394 dr)
Piksimak River	2 300	-	-
Cleveland River	9 100	1 746 (1 518 dr)	650 (565 dr)
Bennett Bay	2 300	-	-

Table 2. Cont'd.

	Quota (kg)	Production (kg)	
	1985 and 1986	1985	1986
Brown River	6 800	620 (539 dr)	-
Chesterfield Inlet (Fish Bay)	2 300	4 188 (3 642 dr)	2 566 (2 331 dr)
Stony Point	6 800	625 (544 dr)	288 (250 dr)
Robin Hood Bay	6 800	133 (116 dr)	110 (96 dr)
Hanway River	2 300	-	-
Josephine River	4 500	5 270 (4 583 dr)	118 (103 dr)
Baker Foreland	2 300	1 075 (935 dr)	2 524 (2 195 dr)
Rankin Inlet	9 100	closed	closed
Corbett Inlet	4 500 (1985) 4 000 (1986)	4 628 (4 024 dr)	305 (265 dr)
Pistol Bay	2 300	2 076 (1 805 dr)	2 300 (2 000 dr)
Whale Cove area	2 300	3 149 (2 738 dr)	-
Wilson Bay	9 100	2 119 (1 843 dr)	4 554 (3 960 dr)
Mistake Bay	2 300	23 (20 dr)	186 (162 dr)
Ferguson River	13 600	6 084 (5 290 dr)	28 (24 dr)
Copperneedle River	4 500	169 (147 dr)	-
Sandy Point	900	294 (265 dr)	-
Wallace River	2 300	-	-
Maguse River	4 500	-	5 129[4] (4 486 dr)
Eskimo Point area	4 500	1 876 (1 631 dr)	5 129[4] (4 486 dr)
Churchill, Manitoba	500	521 (453 dr)	200 (174 dr)

[1] Round weight calculated using a dressed weight to round weight conversion factor of 1.25 (includes estimate of culls).

[2] Dressed weight (viscera and gills removed).

[3] Round weight calculated using a dressed weight to round weight conversion factor of 1.15 (does not include estimate of culls).

[4] Eskimo Point and Maguse River production is combined.

Table 3. Age composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
11	7	6	618	24	2529	293
12	13	10	623	34	2619	456
13	15	12	666	36	3293	580
14	27	22	676	46	3359	784
15	22	18	690	40	3450	604
16	16	13	698	41	3644	842
17	10	8	733	42	4130	629
18	9	7	755	48	4100	1081
19	1	1	817	-	6600	-
20	3	2	714	21	4033	236
21	1	1	815	-	4300	-
TOTAL	124					
MEAN			685	56	3446	861
MEAN AGE	14.7					

Table 4. Length composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
550	7	4	585	2243	221
600	45	23	627	2642	241
650	59	30	675	3203	334
700	57	29	721	3814	532
750	20	10	770	4703	522
800	9	5	818	5106	1073
TOTAL	197				
MEAN			690	3457	864

Table 5. Age composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
11	2	1	560	7	1700	141
12	18	12	652	34	2672	471
13	13	9	672	51	2946	623
14	33	22	683	41	3056	571
15	30	20	705	37	3295	567
16	26	17	708	49	3313	749
17	14	9	719	31	3279	538
18	4	3	779	49	3988	856
19	5	3	744	33	3990	641
20	1	1	789	-	3350	-
21	2	1	765	35	4075	247
22	1	1	775	-	3700	-
TOTAL	149					
MEAN			696	51	3172	682
MEAN AGE	14.9					

Table 6. Length composition of Arctic charr taken by the commercial fishery at Ekalluk River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
550	5	2	573	1690	74
600	23	11	632	2557	391
650	65	32	672	2849	308
700	74	37	723	3403	403
750	30	15	766	3815	572
800	5	2	825	4850	437
TOTAL	202				
MEAN			701	3183	663

Table 7. Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	1	1	410	-	900	-
11	2	2	624	86	2475	1167
12	1	1	638	-	2700	-
13	16	15	702	38	3150	441
14	18	17	700	42	3342	678
15	24	22	720	44	3265	811
16	20	19	710	29	3438	392
17	13	12	760	35	3727	627
18	6	6	758	40	3833	613
19	5	5	742	76	3430	1101
20	2	2	820	34	4750	283
TOTAL	108					
MEAN			716	57	3373	734
MEAN AGE	15.2					

Table 8. Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	1	1	410	900	-
550	2	1	561	1625	35
600	8	5	633	2381	407
650	38	22	680	3038	455
700	68	40	720	3426	443
750	42	25	773	3758	708
800	12	7	813	4146	470
TOTAL	171				
MEAN			723	3387	698

Table 9. Age composition of Arctic charr taken by the commercial fishery at Halovik River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
12	2	2	664	11	2825	35
13	6	5	669	26	2917	270
14	8	6	702	21	3206	224
15	9	7	720	43	3083	638
16	26	21	738	38	3550	556
17	31	25	733	41	3456	551
18	26	21	742	48	3581	547
19	9	7	717	44	3167	536
20	4	3	784	19	4163	295
21	3	2	758	23	3417	76
TOTAL	124					
MEAN			730	44	3423	559
MEAN AGE	16.7					

Table 10. Length composition of Arctic charr taken by the commercial fishery at Halovik River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
600	3	2	636	2567	153
650	38	21	681	2924	363
700	72	40	723	3290	349
750	52	29	775	3886	450
800	15	8	817	4353	301
TOTAL	180				
MEAN			736	3461	588

Table 11. Age composition of Arctic charr taken by the commercial fishery (downstream migration) at Paliryuak River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	1	1	470	-	900	-
9	1	1	563	-	1500	-
10	2	2	656	171	2425	1591
11	8	6	614	50	2388	703
12	6	5	623	51	2483	804
13	22	17	681	35	2955	669
14	21	16	680	46	2993	625
15	21	16	717	40	3345	724
16	19	15	741	41	3800	802
17	14	11	737	53	3743	776
18	8	6	759	38	3931	701
19	1	1	687	-	3200	-
20	2	2	736	34	3200	0
21	1	1	681	-	3900	-
22	1	1	803	-	5250	-
TOTAL	128					
MEAN			699	64	3236	887
MEAN AGE	14.7					

Table 12. Length composition of Arctic charr taken by the commercial fishery (downstream migration) at Paliryuak River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	1	1	428	700	-
450	1	1	470	900	-
500	3	2	530	1267	29
550	7	4	573	1757	278
600	14	7	635	2475	518
650	61	31	677	2975	316
700	60	31	723	3493	416
750	32	16	770	3894	604
800	15	8	812	4830	610
TOTAL	194				
MEAN			705	3302	860

Table 13. Age composition of Arctic charr taken by the commercial fishery (upstream migration) at Paliryuak River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
10	2	3	608	13	2450	141
11	8	11	601	18	2356	178
12	12	17	616	28	2542	332
13	13	18	665	36	3269	471
14	10	14	675	46	3090	625
15	8	11	680	39	3331	652
16	7	10	706	29	3579	446
17	6	8	733	46	4000	1040
18	2	3	730	85	3625	1450
19	2	3	758	70	4375	1025
21	1	1	740	-	4200	-
24	1	1	700	-	3050	-
TOTAL	72					
MEAN			667	57	3147	764
MEAN AGE	14.1					

Table 14. Length composition of Arctic charr taken by the commercial fishery (upstream migration) at Paliryuak River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
550	10	10	586	2235	226
600	30	31	629	2693	219
650	25	26	676	3134	356
700	23	24	719	3733	366
750	7	7	764	3943	896
800	2	2	804	5050	71
TOTAL	97				
MEAN			671	3145	698

Table 15. Age composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
12	9	8	667	25	2917	396
13	8	7	693	27	3225	433
14	24	21	706	49	3240	517
15	19	16	715	41	3505	589
16	24	21	728	49	3577	653
17	16	14	753	29	3659	593
18	8	7	766	32	3831	444
19	6	5	756	29	3883	828
23	2	2	786	1	3925	35
TOTAL	116					
MEAN			723	48	3471	609
MEAN AGE	15.5					

Table 16. Length composition of Arctic charr taken by the commercial fishery at Paliryuak River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
550	1	1	582	1750	-
600	5	3	631	2450	444
650	47	26	678	3019	291
700	71	39	727	3434	373
750	42	23	772	3907	456
800	11	6	812	4450	473
850	2	1	863	3850	1344
900	1	1	915	7300	-
TOTAL	180				
MEAN			729	3488	661

Table 17. Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
11	3	2	649	14	2717	176
12	1	1	646	-	2500	-
13	16	12	677	43	3009	766
14	27	20	705	31	3176	580
15	28	20	727	47	3545	604
16	32	23	732	46	3444	695
17	19	14	758	53	3935	728
18	8	6	805	57	4194	921
19	2	1	771	37	4200	141
22	1	1	816	-	3850	-
TOTAL	137					
MEAN			726	55	3464	748
MEAN AGE	15.3					

Table 18. Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
600	12	6	633	2367	280
650	41	21	680	3022	377
700	84	42	725	3321	525
750	36	18	778	4044	559
800	25	13	822	4452	505
TOTAL	198				
MEAN			732	3476	738

Table 19. Age composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
12	2	2	634	58	2225	813
13	2	2	706	58	3250	424
14	9	8	713	29	3117	660
15	14	13	746	36	3643	514
16	23	21	754	40	3500	607
17	29	26	766	42	3609	554
18	22	20	780	29	3807	522
19	6	5	759	42	3608	554
20	3	3	746	57	3200	608
21	2	2	778	10	3350	141
TOTAL	112					
MEAN			755	44	3543	601
MEAN AGE	16.6					

Table 20. Length composition of Arctic charr taken by the commercial fishery at Lauchlan River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
550	4	2	570	1563	103
650	16	9	683	2909	474
700	52	28	730	3192	334
750	83	45	774	3701	417
800	29	16	813	4198	513
850	1	1	861	4900	-
TOTAL	185				
MEAN			756	3528	641

Table 21. Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	1	1	498	-	1600	-
8	14	11	579	23	2482	355
9	53	40	595	30	2728	445
10	25	19	614	42	2992	679
11	15	11	596	45	2773	736
12	11	8	646	41	3418	664
13	1	1	652	-	3400	-
14	4	3	682	35	3350	567
15	4	3	683	51	3925	925
16	2	2	711	90	4200	2121
17	1	1	588	-	2450	-
19	1	1	859	-	4850	-
TOTAL	132					
MEAN			610	51	2903	703
MEAN AGE	10.2					

Table 22. Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	1	1	498	1600	-
500	4	2	530	2013	217
550	81	48	575	2423	228
600	49	29	621	3033	287
650	24	14	670	3756	475
700	8	5	718	4399	423
750	1	1	774	5700	-
850	1	1	859	4850	-
TOTAL	169				
MEAN			610	2902	716

Table 23. Age composition of Arctic charr taken by the commercial fishery at Ellice River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	5	3	593	12	2410	182
9	27	18	627	35	2654	476
10	71	47	646	40	3059	681
11	25	16	642	41	2978	682
12	9	6	666	41	3217	883
13	6	4	642	27	2650	324
15	2	1	738	47	3425	530
16	5	3	755	62	4440	860
17	1	1	622	-	2950	-
18	1	1	783	-	4400	-
TOTAL	152					
MEAN			647	48	3004	722
MEAN AGE	10.5					

Table 24. Length composition of Arctic charr taken by the commercial fishery at Ellice River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
550	28	15	585	2238	200
600	81	43	626	2697	302
650	50	27	671	3348	497
700	16	9	718	4091	594
750	11	6	767	4332	480
800	1	1	840	5600	-
TOTAL	187				
MEAN			649	3033	744

Table 25. Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1985.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
12	5	4	619	25	2240	277
13	9	7	630	37	2461	331
14	25	20	664	48	2780	624
15	25	20	661	49	2762	615
16	28	23	674	32	3034	546
17	12	10	707	61	3267	839
18	14	11	712	27	3325	477
19	2	2	738	74	3175	177
21	1	1	760	-	2600	-
22	2	2	704	25	3050	424
TOTAL	123					
MEAN			674	50	2908	629
MEAN AGE	15.5					

Table 26. Length composition of Arctic charr taken by the commercial fishery at Jayco River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	2	1	526	1175	35
550	6	3	574	1683	151
600	45	22	632	2414	252
650	90	45	676	2961	326
700	44	22	721	3414	341
750	14	7	768	3571	580
TOTAL	201				
MEAN			678	2924	571

Table 27. Age composition of Arctic charr taken by the commercial fishery at Jayco River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
14	4	3	617	26	2200	303
15	19	15	645	35	2613	441
16	34	27	675	39	2726	499
17	41	33	661	43	2634	483
18	14	11	669	29	2750	488
19	9	7	696	40	2844	565
20	2	2	709	83	3050	919
21	2	2	699	9	2975	318
TOTAL	125					
MEAN			665	42	2682	490
MEAN AGE	16.7					

Table 28. Length composition of Arctic charr taken by commercial fishery at Jayco River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
500	1	0	540	1400	-
550	10	5	585	1920	250
600	50	24	630	2224	238
650	98	47	671	2678	335
700	39	19	721	3222	334
750	9	4	766	3622	195
TOTAL	207				
MEAN			670	2669	521

Table 29. Age composition of Arctic charr taken by the commercial fishery at Coppermine River, 1986.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
7	-	-	-	-	-	-	-	1	535	-	2050	-	1.34	0	1	535	-	2050	-	1.34	0
8	7	570	29	2114	373	1.13	14	9	574	29	2339	279	1.24	44	16	572	28	2241	332	1.19	31
9	27	604	28	2509	392	1.13	33	20	606	30	2590	429	1.16	30	47	605	28	2544	405	1.14	32
10	22	620	53	2868	813	1.18	55	18	622	33	2861	525	1.18	39	40	620	45	2865	690	1.18	48
11	5	638	68	2920	662	1.12	40	3	659	64	3383	1000	1.16	100	8	646	63	3094	771	1.14	63
12	3	697	30	3633	797	1.08	100	2	644	33	3175	601	1.18	50	5	676	40	3450	686	1.12	80
13	1	679	-	2900	-	0.93	0	-	-	-	-	-	-	-	1	679	-	2900	-	0.93	0
14	1	822	-	4800	-	0.86	100	-	-	-	-	-	-	-	1	822	-	4800	-	0.86	100
15	-	-	-	-	-	-	-	3	784	76	5067	1291	1.04	100	3	784	76	5067	1291	1.04	100
TOTAL	66							56							122						
MEAN		617	54	2710	713	1.14			618	57	2823	793	1.18			617	55	2762	750	1.16	
MEAN AGE		9.7							9.7							9.7					

Table 30. Length composition of Arctic charr taken by the commercial fishery at Coppermine River, 1986.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
500	4	523	1575	50	1.10	25	5	521	1910	230	1.35	0	9	522	1761	242	1.24	11
550	28	572	2152	224	1.15	14	19	581	2345	221	1.19	32	47	576	2230	240	1.16	21
600	32	621	2730	274	1.14	53	35	619	2717	267	1.15	40	67	620	2723	268	1.14	46
650	13	672	3415	474	1.12	69	8	666	3538	364	1.20	88	21	670	3462	430	1.15	76
700	6	723	3700	1006	0.97	100	5	737	4250	170	1.06	100	11	729	3950	775	1.01	100
800	2	816	4950	212	0.91	100	1	812	3650	-	0.68	100	3	815	4517	765	0.84	100
850	-	-	-	-	-	-	1	871	6550	-	0.99	100	1	871	6550	-	0.99	100
TOTAL	85						74						159					
MEAN		620	2711	754	1.12			622	2824	761	1.16			621	2763	757	1.14	

Table 31. Age composition of Arctic charr taken by the commercial fishery at Hall Lake, 1986.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	LENGTH(MM) SD	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
12	1	3	500	-	1814	-	1.45	2	4	570	14	2722	161	1.48	3	4	547	42	2419	536	1.47	67
13	3	9	587	32	3100	524	1.52	4	9	543	46	2382	687	1.46	7	9	561	45	2689	689	1.49	57
14	5	16	554	57	2608	790	1.50	5	11	556	13	2404	477	1.39	10	13	555	39	2506	624	1.44	50
15	3	9	640	26	4120	364	1.58	4	9	610	80	3600	1284	1.52	7	9	623	61	3823	973	1.54	57
16	10	31	609	90	3776	1877	1.55	10	22	582	40	3039	772	1.51	21	27	596	67	3397	1411	1.53	50
17	5	16	632	61	4037	828	1.61	10	22	582	43	2926	697	1.47	16	20	602	53	3331	876	1.51	67
18	2	6	625	21	3516	482	1.43	5	11	602	57	2971	766	1.34	7	9	609	49	3127	708	1.37	71
19	2	6	675	35	4820	1684	1.54	1	2	640	-	4536	-	1.73	3	4	663	32	4725	1202	1.60	33
20	-	-	-	-	-	-	-	2	4	575	49	2552	241	1.36	2	3	575	49	2552	241	1.36	-
21	1	3	720	-	4763	-	1.28	2	4	615	21	3459	240	1.49	3	4	650	62	3894	772	1.42	67
TOTAL	32							45							79							
MEAN			610	72	3622	1345	1.53			582	46	2943	791	1.46			595	59	3233	1090	1.49	58
MEAN AGE	16.2							16.2							16.0							

Table 32. Length composition of Arctic charr taken by the commercial fishery at Hall Lake, 1986.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	WEIGHT(G) SD	K	% FEMALE
450	1	3	490	1814	-	1.54	1	2	490	1701	-	1.45	2	2	490	1758	80	1.49	50
500	5	13	518	2132	404	1.53	9	15	527	2139	258	1.46	14	14	524	2130	302	1.48	64
550	10	26	561	2733	467	1.54	21	36	564	2608	389	1.45	31	31	563	2649	412	1.48	68
600	9	24	620	3730	386	1.56	18	31	613	3320	486	1.44	28	28	615	3447	482	1.48	67
650	6	16	658	4347	490	1.52	10	17	659	4071	662	1.42	17	17	658	4156	588	1.46	63
700	7	18	713	5654	629	1.56	-	-	-	-	-	-	8	8	711	5627	588	1.57	-
TOTAL	38						59						100						
MEAN			611	3659	1292	1.55			588	2985	794	1.44			599	3276	1073	1.48	61

Table 33. Age composition of Arctic charr taken by the commercial fishery at Becher River, 1985.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
5	1	325	-	350	-	1.02	0	-	-	-	-	-	-	-	1	325	-	350	-	1.02	0
6	3	388	25.2	683	126	1.16	0	2	368	38.9	500	212	0.97	0	5	380	28.7	610	171	1.08	0
7	2	391	21.9	600	71	1.01	0	2	407	56.6	748	350	1.06	0	4	399	36.3	674	223	1.03	0
8	10	521	40.2	1661	465	1.15	0	8	480	35.8	1344	358	1.20	0	19	498	46.6	1479	463	1.17	0
9	20	549	39.8	2080	407	1.24	0	22	523	35.5	1805	319	1.25	9	42	536	39.4	1936	385	1.24	5
10	2	547	9.2	1900	141	1.16	0	1	557	-	2350	-	1.36	0	3	550	8.9	2050	278	1.23	0
11	1	579	-	2700	-	1.39	0	3	612	25.9	3000	265	1.31	100	4	604	26.7	2925	263	1.33	75
12	-	-	-	-	-	-	-	6	655	44.1	3583	561	1.27	50	6	655	44.1	3583	561	1.27	50
13	4	722	25.2	5088	722	1.34	100	1	580	-	2500	-	1.28	0	5	694	67.3	4570	1315	1.33	80
14	-	-	-	-	-	-	-	1	540	-	3250	-	2.06	100	1	540	-	3250	-	2.06	100
15	2	725	1.4	5250	354	1.38	100	-	-	-	-	-	-	-	2	725	1.4	5250	354	1.38	100
TOTAL	45							46							92						
MEAN		544	97	2204	1330	1.21			529	77.9	1990	904	1.25			535	88.3	2081	1136	1.23	
MEAN AGE	9.2																				

Table 34. Length composition of Arctic charr taken by the commercial fishery at Becher River, 1985.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
200	-	-	-	-	-	-	-	-	-	-	-	-	1	200	380	-	4.75	0
250	-	-	-	-	-	-	-	-	-	-	-	-	3	284	233	29	1.02	0
300	1	325	350	-	1.02	0	1	340	350	-	0.89	0	8	332	356	50	0.98	0
350	3	375	600	87	1.13	0	2	381	575	106	1.03	0	46	376	576	108	1.08	0
400	5	422	830	125	1.10	0	3	442	998	3	1.16	0	70	426	881	152	1.13	0
450	1	475	1150	-	1.07	0	9	472	1312	188	1.24	0	74	473	1243	196	1.17	0
500	14	527	1744	258	1.19	0	18	527	1899	395	1.29	17	87	525	1784	254	1.23	3
550	17	569	2285	236	1.24	0	9	566	2239	241	1.23	11	63	567	2215	252	1.21	2
600	-	-	-	-	-	-	6	621	3050	405	1.27	50	21	623	3133	333	1.29	14
650	1	697	4300	-	1.27	100	1	650	3600	-	1.31	0	10	669	3700	289	1.24	10
700	4	721	5125	250	1.37	100	2	708	4175	106	1.18	100	10	716	4830	439	1.31	60
750	2	762	5825	318	1.32	100	-	-	-	-	-	-	3	759	5717	293	1.31	67
TOTAL	48						51						396					
MEAN		546	2233	1396	1.21			530	1978	867	1.24			496	1634	1016	1.19	

Table 35. Age composition of Arctic charr taken by the commercial fishery at Arrowsmith River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD
6	5	13	363	44	540	207
7	11	28	414	52	745	225
8	8	20	470	33	1238	346
9	3	8	478	39	1333	289
10	8	20	537	24	1938	283
11	1	3	584	-	2250	-
12	4	10	601	29	2550	289
TOTAL	40					
MEAN			471	82	1319	701
MEAN AGE	8.4					

Table 36. Length composition of Arctic charr taken by the commercial fishery at Arrowsmith River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD	K
300	4	9	333	375	50	1.02
350	3	7	377	633	115	1.18
400	10	22	418	830	106	1.14
450	8	17	470	1188	253	1.13
500	10	22	524	1630	403	1.13
550	7	15	566	2236	189	1.24
600	2	4	625	2700	283	1.10
650	2	4	671	3400	0	1.13
TOTAL	46					
MEAN			482	1421	799	1.14

Table 37. Length composition of Arctic charr taken by the commercial fishery at Kellett River, 1985.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	ROUND WEIGHT(G) MEAN	ROUND WEIGHT(G) SD
300	3	2	317	350	50
350	2	1	380	600	212
400	11	7	427	905	223
450	36	24	474	1197	248
500	39	26	519	1618	321
550	28	19	571	2116	277
600	15	10	615	2633	266
650	7	5	663	3336	390
700	7	5	716	4400	428
750	1	1	780	4700	-
TOTAL	149				
MEAN			532	1852	934

Table 38. Age composition of Arctic charr taken by the commercial fishery at Keith Bay, 1985.

AGE (YR)	MALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	SD	WEIGHT(G) MEAN	SD	K	% FEMALE
5	1	2	360	-	500	-	1.07	-	-	-	-	-	-	-	1	1	360	-	500	-	1.07	-
6	-	-	-	-	-	-	-	1	3	360	-	600	-	1.29	1	1	360	-	600	-	1.29	-
7	1	2	400	-	800	-	1.25	-	-	-	-	-	-	-	1	1	400	-	800	-	1.25	-
8	2	4	490	99.0	1825	1379	1.37	1	3	460	-	1100	-	1.13	3	3	480	72.1	1583	1061	1.29	33
9	7	14	509	74.3	1871	814	1.32	6	17	490	56.9	1558	563	1.27	13	15	500	64.8	1727	700	1.30	46
10	5	10	542	35.6	2040	442	1.27	5	14	536	47.2	2210	509	1.42	10	12	539	39.6	2125	458	1.34	50
11	25	49	582	31.0	2658	423	1.34	15	43	559	23.6	2443	295	1.40	40	47	573	30.3	2578	390	1.36	38
12	4	8	608	38.6	3075	411	1.37	3	9	590	20.0	2817	388	1.37	7	8	600	31.1	2964	392	1.37	43
13	2	4	640	14.1	3525	35	1.35	2	6	580	42.4	2800	566	1.43	4	5	610	43.2	3163	531	1.39	50
14	1	2	640	-	3350	-	1.28	2	6	590	28.3	2575	601	1.24	3	3	607	35.1	2833	617	1.25	67
15	1	2	610	-	3050	-	1.34	-	-	-	-	-	-	-	1	1	610	-	3050	-	1.34	-
18	1	2	630	-	3200	-	1.28	-	-	-	-	-	-	-	1	1	630	-	3200	-	1.28	-
19	1	2	670	-	3700	-	1.23	-	-	-	-	-	-	-	1	1	670	-	3700	-	1.23	-
TOTAL	51							35							86							
MEAN			565	67.7	2497	776	1.32			541	57.2	2227	643	1.36			555	64.4	2387	733	1.34	41
MEAN AGE	10.8																					

Table 39. Length composition of Arctic charr taken by the commercial fishery at Keith Bay, 1985.

LENGTH INTERVAL (MM)	MALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	FEMALES N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	COMBINED N	%	LENGTH(MM) MEAN	WEIGHT(G) MEAN	SD	K	% FEMALE
350	1	2	360	500	-	1.07	1	2	360	600	-	1.29	3	2	363	550	50	1.15	50
400	4	7	410	800	71	1.16	1	2	400	800	-	1.25	5	3	408	800	61	1.18	20
450	2	3	480	1450	71	1.31	4	9	465	1263	217	1.25	6	4	470	1325	197	1.27	67
500	3	5	523	2033	76	1.42	7	16	523	2079	173	1.45	14	8	527	2150	323	1.46	70
550	29	50	569	2493	283	1.35	23	51	565	2470	241	1.37	74	45	570	2517	265	1.36	44
600	16	28	615	3119	246	1.34	9	20	613	3106	210	1.35	57	35	619	3106	268	1.31	36
650	3	5	660	3550	132	1.23	-	-	-	-	-	-	6	4	658	3525	197	1.23	-
TOTAL	58						45						165						
MEAN			567	2509	738	1.32			551	2350	642	1.36			574	2595	665	1.33	44

Table 40. Age composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
8	17	38	541	36	1685	335
9	16	36	575	33	1997	468
10	10	22	578	33	1945	305
11	1	2	584	-	1950	-
13	1	2	630	-	2500	-
TOTAL	45					
MEAN			564	38	1878	405
MEAN AGE	9.0					

Table 41. Length composition of Arctic charr taken by the commercial fishery at Baker Foreland, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	6	11	481	1100	158
500	11	21	530	1527	152
550	25	47	570	1928	158
600	11	21	616	2350	341
TOTAL	53				
MEAN			561	1839	428

Table 42. Age composition of Arctic charr taken by test gill nets (139 mm) at Rankin Inlet, 1985.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
5	-	-	-	-	-	-	-	1	351	-	600	-	1.39	0	1	351	-	600	-	1.39	0
6	2	401	5	800	71	1.25	0	1	453	-	1200	-	1.29	100	3	418	31	933	236	1.26	33
7	10	486	51	1602	493	1.35	38	7	482	43	1529	500	1.32	17	17	484	47	1572	482	1.34	29
8	34	523	43	1897	452	1.30	80	14	507	46	1759	500	1.32	36	48	518	44	1857	465	1.30	68
9	26	549	42	2226	568	1.32	84	15	545	23	2125	322	1.30	64	41	547	36	2189	490	1.31	77
10	9	582	27	2600	487	1.30	100	2	585	88	2075	813	1.01	50	11	583	37	2505	548	1.25	90
11	1	508	-	1500	-	1.14	0	1	554	-	2100	-	1.24	100	2	531	33	1800	424	1.19	50
TOTAL	82							41							123						
MEAN		530	52	2011	593	1.31			516	54	1835	524	1.30			525	53	1952	575	1.31	
MEAN AGE		8.2							8.2							8.3					

Table 43. Length composition of Arctic charr taken by test gill nets (139 mm) at Rankin Inlet, 1985.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
350	3	387	783	76	1.35	0	1	351	600	-	1.39	0	4	378	738	111	1.36	0
400	4	435	963	155	1.16	0	3	431	1017	153	1.26	0	7	434	986	144	1.20	0
450	12	482	1472	205	1.31	8	9	469	1314	152	1.27	22	21	477	1404	196	1.29	14
500	37	528	1952	208	1.33	70	16	530	1972	201	1.32	38	53	528	1958	204	1.33	60
550	23	570	2389	281	1.29	96	13	562	2321	217	1.31	46	36	567	2364	259	1.30	78
600	8	612	3074	321	1.34	63	3	618	2800	150	1.20	100	11	613	2999	305	1.30	73
TOTAL	87						45						132					
MEAN		531	2019	585	1.31			522	1902	551	1.30			528	1979	574	1.31	

Table 44. Age composition of Arctic charr taken by test gill nets (139 mm) at Rankin Inlet, 1986.

AGE (YR)	MALES N	MALES LENGTH(MM) MEAN	MALES LENGTH(MM) SD	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES LENGTH(MM) SD	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED LENGTH(MM) SD	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
8	15	554	34	2027	328	1.19	87	1	560	-	2350	-	1.34	100	16	554	33	2047	327	1.20	88
9	18	587	27	2483	393	1.22	100	14	563	24	2086	278	1.16	79	32	576	28	2309	396	1.20	91
10	9	598	29	2439	312	1.14	100	6	576	29	2083	352	1.08	100	16	587	30	2288	353	1.13	100
11	2	662	11	3375	247	1.16	100	3	565	28	2100	150	1.19	100	5	603	57	2610	717	1.18	100
12	-	-	-	-	-	-	-	1	590	-	1950	-	0.95	100	1	590	-	1950	-	0.95	100
13	-	-	-	-	-	-	-	1	605	-	2500	-	1.13	100	1	605	-	2500	-	1.13	100
14	-	-	-	-	-	-	-	1	623	-	2250	-	0.93	100	1	623	-	2250	-	0.93	100
TOTAL	44							27							72						
MEAN		581	38	2359	458	1.19			571	27	2113	273	1.14			577	34	2264	411	1.17	
MEAN AGE		9.9							9.9							9.3					

Table 45. Length composition of Arctic charr taken by test gill nets (139 mm) at Rankin Inlet, 1986.

LENGTH INTERVAL (MM)	MALES N	MALES LENGTH(MM) MEAN	MALES WEIGHT(G) MEAN	MALES WEIGHT(G) SD	MALES K	MALES % MAT	FEMALES N	FEMALES LENGTH(MM) MEAN	FEMALES WEIGHT(G) MEAN	FEMALES WEIGHT(G) SD	FEMALES K	FEMALES % MAT	COMBINED N	COMBINED LENGTH(MM) MEAN	COMBINED WEIGHT(G) MEAN	COMBINED WEIGHT(G) SD	COMBINED K	COMBINED % MAT
450	2	493	1400	71	1.17	0	-	-	-	-	-	-	2	493	1400	71	1.17	0
500	4	534	1813	111	1.20	100	7	528	1764	312	1.19	43	11	530	1782	250	1.19	64
550	27	571	2261	228	1.21	100	17	570	2115	190	1.14	94	45	570	2203	222	1.19	96
600	11	621	2755	238	1.15	100	6	609	2400	118	1.07	100	17	617	2629	265	1.12	100
650	4	670	2913	559	0.98	100	2	689	3450	71	1.06	100	6	676	3092	515	1.00	100
TOTAL	48						32						81					
MEAN		584	2355	441	1.18			576	2175	441	1.13			580	2281	445	1.16	

Table 46. Age composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1986

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
6	3	7	444	30	983	161
7	8	19	536	40	1725	431
8	13	30	568	28	2196	419
9	8	19	564	32	2025	254
10	11	26	613	43	2623	724
TOTAL	43					
MEAN			564	54	2101	640
MEAN AGE	8.4					

Table 47. Length composition of Arctic charr taken by the commercial fishery at Corbett Inlet, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
400	1	2	410	800	-
450	4	8	473	1200	178
500	11	21	529	1645	275
550	23	43	573	2170	198
600	12	23	622	2725	173
650	2	4	669	3725	884
TOTAL	53				
MEAN			568	2146	620

Table 48. Age composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
6	1	1	390	-	650	-
7	6	6	495	30	1317	277
8	32	31	546	32	1773	390
9	43	42	582	38	2198	535
10	16	16	604	45	2284	580
11	2	2	638	4	2675	247
14	1	1	760	-	4950	-
15	1	1	631	-	2650	-
TOTAL	102					
MEAN			570	53	2052	639
MEAN AGE	8.8					

Table 49. Length composition of Arctic charr taken by the commercial fishery at Pistol Bay, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
350	1	1	390	650	-
450	7	6	485	1271	191
500	28	25	530	1555	201
550	45	40	572	2053	227
600	27	24	620	2583	388
650	2	2	678	2600	707
700	1	1	710	4150	-
750	1	1	760	4950	-
TOTAL	112				
MEAN			571	2050	616

Table 50. Age composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	11	6	528	65	1659	557
8	51	30	560	29	2057	368
9	69	40	584	36	2295	459
10	33	19	619	37	2698	590
11	5	3	636	50	2950	581
12	2	1	634	1	3025	177
13	1	1	709	-	3450	-
TOTAL	172					
MEAN			583	46	2295	562
MEAN AGE	8.9					

Table 51. Length composition of Arctic charr taken by the commercial fishery at Wilson Bay, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
350	1	0	384	550	-
400	3	1	413	733	29
450	4	2	481	1150	100
500	37	17	533	1785	184
550	100	47	573	2153	223
600	48	23	619	2650	268
650	16	8	665	3253	370
700	4	2	721	3863	539
TOTAL	213				
MEAN			582	2269	575

Table 52. Age composition of Arctic charr taken by the commercial fishery at Maguse River, 1986.

AGE (YR)	NO.	PERCENT	FORK LENGTH(MM) MEAN	FORK LENGTH(MM) SD	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
7	23	16	554	27	2113	403
8	55	39	586	25	2334	395
9	57	41	595	37	2417	549
10	2	1	668	91	3400	1697
11	3	2	622	57	2867	611
TOTAL	140					
MEAN			586	37	2358	516
MEAN AGE	8.3					

Table 53. Length composition of Arctic charr taken by the commercial fishery at Maguse River, 1986.

LENGTH INTERVAL (MM)	NO.	PERCENT	MEAN FORK LENGTH(MM)	DRESSED WEIGHT(G) MEAN	DRESSED WEIGHT(G) SD
450	1	1	499	1500	-
500	20	11	532	1795	228
550	100	55	576	2199	288
600	45	25	617	2651	309
650	13	7	664	3315	391
700	2	1	720	3925	955
TOTAL	181				
MEAN			589	2362	508

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